

**A METHOD FOR CO-CHANNEL INTERFERENCE
IDENTIFICATION AND MITIGATION**

ABSTRACT OF THE DISCLOSURE

A method for co-channel interference identification and mitigation
5 employs adaptive sequence detection in connection with a model composed of a signal
of interest and a combination other signals which constitute interference in a channel of
interest, wherein the signal of interest is distinguished from the interference by adaptive
tracking of signal parameters of all identifiable signals. In a particular embodiment, the
process involves estimating the number and time spans of co-channel interference
10 channels based on maximum likelihood estimation and minimum description length
from training information derived from a single time division multiple access packet;
and then applying the estimate to mitigation of co-channel interference at a receiver.
Per-survivor-processing is one technique for adaptive sequence detection.

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